

Safety Data Sheets

1. Identification

Product Name : Cleaning-Solution Bottle A29
Order No. : SPC-0137
General Use : Cleaning Solution of ink
Product Description : Aqueous liquid
SDS Number : 037-C041186
Manufacture
Company Name : Mimaki Engineering Co., Ltd.
Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone No. : +81-268-64-2413
Importer / Distributor Established in USA
Company Name : MIMAKI USA, INC.
Address : 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A.
Telephone No. : +1-678-730-0170
Emergency Telephone No. : +81-268-64-2281

2. Hazards Identification

[HCS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Sensitization – Skin : Category 1

Environmental Hazards

Hazardous to the Aquatic : Not classified

Environment - Acute Hazard

Hazardous to the Aquatic : Not classified

Environment - Long Term Hazard

The above list does not include category being non-classifiable or not-applicable.

[HCS Label Elements]

Symbol



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Signal Word

Warning

Hazard Statements

H317 May cause an allergic skin reaction.

Precautionary Statements

[Prevention]

P261 Avoid breathing gas/mist/vapors.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash before reuse.

[Storage]

None needed according to classification criteria.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation(to be specified).

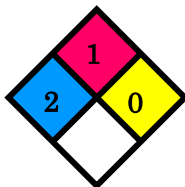
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 1

Instability = 0

Special =



CANADIAN WHMIS SYMBOLS : D2B



3. Composition / Information on Ingredients

| No | Chemical Name | Wt% | CAS No. |
|----|-------------------------------|---------|--------------|
| 1 | Water | balance | 7732-18-5 |
| 2 | Proprietary organic materials | <5 | Trade Secret |

4. First Aid Measures

Inhalation

: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician.

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| | |
|---|---|
| Eye Contact | : Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention. |
| Skin Contact | : Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. |
| Ingestion | : If swallowed, get medical attention. |
| Most Important Symptoms/Effects | |
| Acute | : allergic skin reaction, mild skin irritation |
| Delayed | : allergic skin reaction. |
| Indication of Immediate Medical Attention and Special Treatment Needed, If Needed | : Treat symptomatically and supportively. |

5. Fire Fighting Measures

| | |
|---|---|
| Extinguishing Media | : carbon dioxide, regular dry chemical, water spray, foam. |
| Unsuitable Extinguishing Media | : Do not scatter spilled material with high-pressure water streams. |
| Special Hazards Arising from the Chemical | : Negligible fire hazard. |
| Hazardous Combustion Products | : Combustion: oxides of carbon |
| Fire Fighting Measures | : Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Avoid inhalation of material or combustion by-products. |
| Special Protective Equipment and Precautions for Firefighters | : Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure. |

6. Accidental Release Measures

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| Personal Precautions, Protective Equipment and Emergency Procedures | : Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment. |
| Methods and Materials for Containment and Cleaning Up | : Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. |

7. Handling and Storage

| | |
|--|--|
| Precautions for Safe Handling | : Avoid breathing dust, mist, fumes or vapors. Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke when using this product. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. |
| Conditions for Safe Storage, including any Incompatibilities | : Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Keep separated from incompatible substances. |

8. Exposure Controls / Personal Protection

| | |
|--------------------------------------|---|
| Exposure Limit Values | ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components. |
| Component Biological Limit Values | : There are no biological limit values for the component(s) of this product. |
| Exposure Controls | |
| Occupational Exposure Controls | |
| Appropriate | : Provide local exhaust or process enclosure ventilation system. |

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Engineering Controls Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Respiratory Protection : Consult with a health and safety professional for specific respirators appropriate for your use.



**Vapor
Respirator**

Glove : Wear appropriate chemical resistant gloves.

Recommendations



Gloves

Eye /Face : Wear splash resistant safety goggles with a faceshield. Provide an
Protection emergency eye wash fountain and quick drench shower in the
immediate work area.



**Safety
Glasses**

Skin Protection : Wear appropriate chemical resistant clothing.



**Protective
Apron**

Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

| | | |
|-------------------------------|------------------|---|
| Appearance | - Physical State | : liquid |
| | - Color | : clear |
| Odor | | : slight odor |
| pH | | : 7-8 |
| Boiling Point / Boiling Range | | : Not available |
| Melting Point / Melting Range | | : Not available |
| Decomposition Temperature | | : Not available |
| Flash Point | | : Not detected until 100 degree C (closed cup, ASTM D3278) |
| Auto ignition temperature | | : Not available |
| Flammability (Solid, Gas) | | : Not applicable |

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|---|----------------------|
| Explosive Properties | : Not available |
| Oxidizing Properties | : Not available |
| Upper / Lower Flammability or Explosive Limits | : Not available |
| Vapor Pressure | : Not available |
| Relative Density | : Approx 1.0 (25 °C) |
| Water Solubility | : Complete |
| Partition Coefficient (n-octanol / Water) | : Not available |
| Viscosity | : <5mPa·s (25 °C) |
| Vapor Density | : Not available |
| Evaporation Rate | : Not available |
| VOC | : 1.0g/L |

10. Stability and Reactivity

| | |
|---------------------------------------|--|
| Reactivity | : No reactivity hazard is expected. |
| Chemical Stability | : Stable under normal conditions of use. |
| Possibility of Hazardous Reactions | : Will not polymerize. |
| Conditions to Avoid | : Avoid contact with incompatible materials. |
| Incompatible Materials | : oxidizing materials. |
| Hazardous Decomposition | : Combustion: oxides of carbon. |

11. Toxicological Information

| | |
|--|---|
| Acute Toxicity | |
| Component Analysis - LD50/LC50 | : The component(s) of this material have been reviewed in various sources and no selected endpoints have been identified. |
| Information on Likely Routes of Exposure | |
| Inhalation | : irritation, difficulty breathing. |
| Ingestion | : nausea, vomiting, stomach pain. |
| Skin Contact | : allergic reactions, irritation. |
| Eye Contact | : irritation. |
| Immediate Effects | : allergic skin reaction, mild skin irritation. |
| Delayed Effects | : allergic skin reaction. |

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|------------------------------|--|
| Medical Conditions | : No information available for the product. |
| Aggravated by Exposure | |
| Irritation/Corrosivity | : mild skin irritation. |
| Data | |
| Respiratory | : No information available for the product. |
| Sensitization | |
| Dermal Sensitization | : May cause an allergic skin reaction. |
| Germ Cell | : No information available for the product. |
| Mutagenicity | |
| Carcinogenicity | |
| Component Carcinogenicity | : No data listed by ACGIH, IARC, NTP, DFG or OSHA is available for the component(s) of this product. |
| Reproductive Toxicity | : No information available for the product. |
| Specific Target Organ | : No target organs identified. |
| Toxicity - Single Exposure | |
| Specific Target Organ | : No target organs identified. |
| Toxicity - Repeated Exposure | |
| Aspiration Hazard | : Not expected to be an aspiration hazard. |

12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it. Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

| | |
|---------------------------------------|--|
| Component Analysis - Aquatic Toxicity | : No LOLI ecotoxicity data are available for the component(s) of this product. |
| Persistence and Degradability | : No information available for the product. |
| Bioaccumulation | : No information available for the product. |
| Mobility | : No information available for the product. |
| Other Toxicity | : No additional information is available. |

13. Disposal Considerations

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- Disposal Methods : Comply with all USA, national and local regulations.
Do not dump this product into sewers, on the ground or into any body of water.
- Component Waste : The U.S. EPA has not published waste numbers for this product's
 Numbers components.
- Disposal of : Empty containers may contain product residue. Dispose in
 Contaminated accordance with all applicable regulations.
 Packaging

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

US DOT Information : Not regulated as a hazardous material for transport.

TDG Information : Not regulated as dangerous goods for transport.

Marine Pollutant : No component(s) of this material is specifically listed in the IMDG Code as an identified marine pollutant.

15. Regulatory Information

U.S. Federal : None of this products components are listed under SARA Sections
 Regulations 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA 311/312

| Acute Health: | Chronic Health | Fire | Pressure | Reactive |
|---------------|----------------|------|----------|----------|
| Yes | No | No | No | No |

U.S. State Regulations : None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65.

Canada : WHMIS CLASSIFICATION: D2B.

Canadian WHMIS Ingredient Disclosure List (IDL)

: None of the product component(s) are listed on the Ingredients Disclosure List (IDL).

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Chemical Inventory Listings

Component Analysis - Inventory

| Component | CAS | US | CA | EU | AU | PHIL | JP | KR | CN | NZ |
|-------------------------------|--------------|-----|-----|-----|-----|------|-----|-----|-----|-----|
| Water | 7732-18-5 | Yes | DSL | EIN | Yes | Yes | No | Yes | Yes | Yes |
| Proprietary organic materials | Trade Secret | Yes | DSL | No | Yes | Yes | Yes | Yes | Yes | Yes |

16. Other Information

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code - International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP = National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit

Other Information

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